



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

October 25, 2016

Ms. Melinda Bowman
State Regulatory and Label Lead
Registration Manager – Bifenazate
Arysta Life Science
15401 Weston Parkway, Suite 150
Cary, NC 27513

Subject: Label Amendment – Agency-initiated Label Amendments
Product Name: Floramite®
EPA Registration Number: 400-481
Application Date: July 1, 2016
Decision Number: 519464

Dear Ms. Bowman:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

Page 2 of 2
EPA Reg. No. 400-481
Decision No. 519464

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Dr. William W. Jacobs by phone at 703-305-6406, or via email at jacobs.bill@epa.gov.

Sincerely,

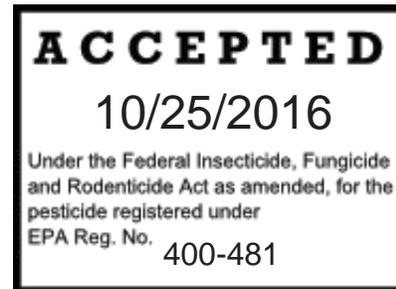
A handwritten signature in cursive script that reads "William W. Jacobs for". The signature is written in black ink and is positioned above the typed name and title.

Venus Eagle, Product Manager 01
Insecticide-Rodenticide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

Floramite®

ORNAMENTAL MITICIDE IN WATER-SOLUBLE BAGS
FOR COMMERCIAL USE ONLY



Active Ingredient: (% by weight)
 Bifenazate: Hydrazine carboxylic acid, 2-(4-methoxy-[1,1'-biphenyl]-3-yl)
 1-methylethyl ester.....50%
 Other Ingredients:50%
 Total:.....100%

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID
IF IN EYES: <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for further treatment advice.
IF SWALLOWED: <ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
EMERGENCY ASSISTANCE: Have the product container or label with you when calling a poison control center or doctor, or going for treatment: <p style="text-align: center;">24 HOUR EMERGENCY PHONE 1-866-928-0789</p> <p style="text-align: center;">For PRODUCT USE INFORMATION: Call 1-866-761-9397</p>

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Wear protective eyewear. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Avoid contact with eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and Other Handlers Must Wear:

- Protective eyewear,
- Long-sleeved shirt and long pants, and
- Shoes plus socks.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS
Users should: <ul style="list-style-type: none"> • Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. • Remove clothing/PPE immediately if pesticide gets inside. Then, wash thoroughly and change into clean clothing. • Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds, estuarine/marine invertebrates and fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are foraging the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

Net contents:

Manufactured for:
 MacDermid Agricultural Solutions, Inc.
 245 Freight Street
 Waterbury, CT 06702-1818

 EPA REG.NO.400-481
 EPA EST.NO.
 009/xxxxxx

[Text in brackets is optional]
 [Batch Code will be placed on the container]

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product through any type of irrigation system.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift.

Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- coveralls
- shoes plus socks
- chemical-resistant gloves made of any waterproof material.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

USE INFORMATION

FLORAMITE is a wettable powder in water-soluble bags. FLORAMITE is a selective miticide for the control of a variety of mite pests on the following plants:

- All ornamental plants, including bedding plants, flowering plants, foliage plants, ornamental bulb crops, perennials, trees and shrubs.
- All non-bearing fruit trees which will not bear fruit for a minimum of 12 months.
- Greenhouse tomatoes

Except for applications to tomatoes, which is restricted to use in greenhouses only, FLORAMITE can be used in the following areas where these plants are grown and/or maintained in containers or in the ground:

- Greenhouses and shadehouses

- Nurseries, including Christmas tree/conifer plantations
- Landscapes
- Interiorscapes
- Residences
- Public, commercial, industrial and institutional areas
- Recreational sites, including campgrounds, golf courses, parks and athletic fields
- Rights of way and other easements

When used as directed and applied to the foliage, FLORAMITE provides knockdown through contact activity, and long residual control. Due to its carbazate chemistry, mode of action and selective nature, FLORAMITE is relatively inactive against beneficial/predacious mites and insects. Therefore, FLORAMITE is compatible with IPM and resistance management programs.

FLORAMITE is not systemic in action; therefore complete coverage of both upper and lower leaf surfaces and of fruit is necessary for effective control.

MIXING INSTRUCTIONS

Fill the spray tank with 1/2 the desired amount of water. Then add the required number of water-soluble bags of FLORAMITE with agitation running to fully disperse the product. Then fill the tank with the remaining amount of required water.

When tank-mixing, thoroughly mix the water-soluble bags before adding other products in the following order: other water-soluble bags, wettable powders, dry flowables, liquid flowables, liquids and emulsifiable concentrates. Always allow each tank-mix partner to disperse fully before adding the next product. Do not add products that release free chlorine or contain boron with water-soluble bag formulations. Boron and free chlorine will inhibit the solubility of the water-soluble bag material causing it to precipitate and form insoluble residue inside the spray tank.

Like many pesticides, FLORAMITE stability can be impacted by high pH and high temperature. Maintain spray mixtures containing FLORAMITE within a range of pH 5.5 to 6.5.

Compatibility: To obtain broad-spectrum insect control, FLORAMITE can be tank-mixed with other insecticide products. However, due to variations in water quality, e.g., hardness and pH, it is required that users conduct small-scale trials under local conditions to ensure compatibility prior to any large-scale use.

Restrictions: Do not remove the water-soluble bags from the container except for immediate use. Use the entire contents of one water-soluble bag. Do not break open and use partial contents of a bag. Do not sell water-soluble packets individually. Do not handle the inner bag with wet hands or wet gloves. Do not allow water-soluble bags to become wet prior to adding them to the spray tank.

Tank mixtures are only permitted in States where all of the pesticide products used as tank-mix partners are registered. It is the pesticide user's responsibility to ensure that all products used in the tank mix are registered for the intended use. Users must follow the most restrictive of all of the labeled use directions, precautionary language, and use limitations for the

tank-mix partners.

USE RATES AND APPLICATION DIRECTIONS

Mix 2 to 4 oz. (2 to 4 water-soluble bags) FLORAMITE in 100 gals. of water and apply as a full coverage spray to the foliage using a minimum volume of 1-4 qts. of final solution per 100 sq. ft. (or 100-400 gal. per acre). Actual spray volume will vary depending on the size of plants being treated. Make application as soon as mites appear as FLORAMITE will provide residual control for up to 28 days. Use 2 oz. of product per 100 gallons of water for preventative applications where mite infestations are light. Up to 4 oz. of product per 100 gallons of water may be required for heavy infestations or for extended residual control. For optimum coverage of ornamentals with hard-to-wet foliage, an adjuvant can be added to the Floramite/water solution. Those found to be effective are Silwet® L-77 or Sylgard® 309 at 4 oz. per 100 gallons of water. **Do not use adjuvants in solutions applied to greenhouse tomatoes.**

When used as directed, FLORAMITE is effective for the control of a variety of mite species, especially spider mites, red mites and grass mites. NOTE: It is not effective against rust mites, broad mites and flat mites. FLORAMITE is primarily active on the motile stages of mites, but also has ovicidal activity against spider mites (*Tetranychus* species).

Common mite species controlled by FLORAMITE include:

COMMON NAME	SCIENTIFIC NAME
Two-spotted spider mite	<i>Tetranychus urticae</i> (Koch)
Pacific mite	<i>Tetranychus pacificus</i> (McGregor)
Strawberry mite	<i>Tetranychus turkestan</i>
European red mite	<i>Panonychus ulmi</i> (Koch)
Citrus red mite	<i>Panonychus citri</i> (McGregor)
Clover mite	<i>Bryobia praetiosa</i> (Koch)
Southern red mite	<i>Oligonychus ilicis</i> (McGregor)
Spruce spider mite	<i>Oligonychus ununguis</i> (Jacobi)
Bamboo spider mite	<i>Schizotetranychus celarius</i> (Banks)
Lewis mite	<i>Eotetranychus lewisi</i>

USE RESTRICTIONS:

For greenhouse tomatoes, do not apply within 3 days of harvest. Do not make more than two (2) applications of FLORAMITE per crop per year.

Do not apply more than 16 oz. of FLORAMITE per acre, per year.

Apply FLORAMITE by the following types of ground equipment: compressed air sprayers, hydraulic sprayers, ground boom sprayers, air blast sprayers and hose end sprayers. Do not apply by aerial application.

STRATEGIES FOR RESISTANCE MANAGEMENT

FLORAMITE, when used as directed, combines high activity on mites with selectivity to beneficial / predacious mites and insects. In addition, the carbazate chemistry of FLORAMITE provides a means of controlling mites which have developed resistance to more commonly used products. These properties can result in fewer miticide/insecticide applications as well as general reduction in the problems caused by resistance.

FLORAMITE has demonstrated no cross-resistance with other commercial miticides. FLORAMITE contains an active ingredient classified as a Group 20 D acaricide. FLORAMITE is suitable to be used as a rotational partner with other miticides.

To reduce selection pressure which can lead to the development of resistance, use FLORAMITE in moderation. To help achieve this follow the mite control strategies below:

- Incorporate IPM techniques into your insect control program.
- Ensure thorough spray coverage to all foliage.
- Scout regularly and apply FLORAMITE as soon as infestations are observed. Do not wait until large populations have established.
- Always apply FLORAMITE at the specified rates and according to label requirements.
- Apply only one application of FLORAMITE before rotating to products of an alternative chemical class.
- Use at least two alternative products between treatments of FLORAMITE.
- Use FLORAMITE in conjunction with biological control organisms available for mite control. FLORAMITE when used as directed, does not adversely affect populations of beneficial/predacious mites and insects, including:

Predatory Mites	Beneficial Insects
<i>Phytoseiulus persimilis</i>	<i>Chrysoperla carnea</i> (common green lacewing)
<i>Neoseiulus spp.</i>	<i>Aphidius colemani</i>
<i>Typhlodromus spp.</i>	<i>Aphidoletes aphidomyza</i>
<i>Amblyseius spp.</i>	<i>Orius insidiosus</i> (insidious pirate bug)
<i>Zetzellia mali</i>	<i>Coccinella septempunctata</i>
<i>Iphiseius degenerans</i>	<i>Hippodamia convergens</i>
	<i>Stethorus punctum</i>
	<i>Diglyphus isaea</i>
	<i>Eretmocerus eremicus</i>
	<i>Cotesia marginiventris</i>

The use of these organisms in conjunction or alternation with FLORAMITE is encouraged as a means of reducing the number of chemical applications.

PLANT TOLERANCE

Neither the manufacturer nor the seller has determined whether or not FLORAMITE can be used safely on all ornamental plants. FLORAMITE has been

tested on a variety of ornamental plants with no phytotoxicity observed at specified label rates. However, all plant species and their varieties and cultivars have not been tested with possible tank-mix combinations, sequential pesticide treatments and adjuvants and surfactants. Therefore, prior to any large-scale application to ornamental plants, determine the safety of FLORAMITE by testing a small number of the plant cultivar to be treated at the required rates to ensure that phytotoxic response will not occur. The end user assumes all risks arising from using this product in a manner inconsistent with its labeling.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a dry location.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Empty residue into application equipment then offer foil bag for recycling, if available, or dispose of container in a sanitary landfill or by incineration, if allowed by State and local ordinances.

IMPORTANT NOTICE—Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and to the extent consistent with applicable law, the buyer assumes the risk of any such use.

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Silwet® is a registered trademark of GE Silicones

Sylgard® 309 is a registered trademark of Dow

Corning Corporation

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